CHARGE NUMBER: 1620

PROJECT TITLE: ELECTROPHYSIOLOGICAL STUDIES

PERIOD COVERED: February 1-28, 1983

PROJECT LEADER: F. P. Gullotta

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I. OLFACTORY EVOKED POTENTIALS (OEPs)

OEPs have been obtained to several concentrations of methyl salicylate and to the methyl salicylate-CO_2 combination. As concentration is increased, it appears that OEP latencies decrease and that amplitudes increase. When CO_2 is added to a medium concentration of methyl salicylate, the OEP resembles that obtained to a high concentration of methyl salicylate.

The effects of stimulus duration were investigated in one subject. Methyl salicylate in pulses of 100, 200 and 300 msec. were employed. Although psychophysical judgments of odor intensity increased with increasing stimulus durations, the OEPs were little affected in latency, amplitude or waveform morphology.

II. ELECTROTRIGEMINOGRAMS (ETGs)

Recently, difficulties have been encountered in recording ETGs. The probable cause of these difficulties is crystallization of sodium chloride on the silver-silver chloride electrodes. To avoid this problem, it will be necessary to prepare fresh electrodes shortly before each experiment.

III. PARAMETRIC STUDIES: PATTERN REVERSAL EVOKED POTENTIALS (PREPs)

The Smoking Over a Four Hour Period study has been completed, and statistical analyses are in progress.

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